

## State of Utah DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

355 West North Temple 3 Triad Center, Suite 350 Salt Lake City, Utah 84180-1203 801-538-5340

October 2, 1991

Mr. William Petty 130 South 300 East Moab, Utah 84532

Dear Mr. Petty:

Re: Seeding Happy Jack Site, M/037/024, San Juan County, Utah

Pursuant to your request for a seed mix recommendation and a description of reclamation methodology, I have put together the following. You will need to purchase the seed based on the following recommended rates and species type.

## Seed Mix Recommendation

Common Name (Species)		Rate lbs/ac
<u>Grassès</u>		
<u>Forbs</u>	Indian ricegrass (oryzopsis hymenoides) Crested wheatgrass (Agropyron desertorum) Bluebunch wheatgrass (Agropyron spicatum) Sand dropseed (Sporobolus cryptandrus)	3 2 2 1
	Filaree (Erodium cicutarium) Yellow sweetclover (Melilotus officinalis)	2 2
<u>Shrubs</u>		
	Four-wing saltbush (Atriplex canescens) Shadescale (Atriplex confertifolia) Rabbitbrush (Chrysothamnus nauseosus) Wright buckwheat (Eriogonum wrightii)	3 3 2 2
	Total	22 lbs/ac

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The Division will not require that you use all of these species, though the mix is highly recommended. If you have trouble obtaining some of these species, use a more condensed mix.

## Seed Application

You will need to ensure that the soil has been loosened sufficiently before seeding by discing or harrowing (at least the first 6 inches of soil). The seed should then be evenly broadcast over the entire area. After seeding, the soil surface should be scarified to a depth of 1/4 inch to 1 inch. This will incorporate the seed at a sufficient depth such that spring germination will be enhanced. Scarification is generally done by dragging a log, chainlink fence, bedsprings or whatever is available, behind a truck or tractor.

To enhance germination, you might want to incorporate a straw or hay mulch into the soil at the discing stage. Also, fertilizer should be included in your application, especially if you use a mulch. The general rule of thumb is 2,000 lb/ac mulch and 100 lbs/ac of diammonium phosphate 18-46-0.

Please call me if you have further questions.

Sincerely,

Holland Shepherd

Senior Reclamation Specialist

jb M037024.1